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- 1. An artificially produced canine milk substitute composition comprising, on a dry matter basis, from about 35 to 45% protein, from about 25 to 35% fat, and from about 10 to 25% carbohydrates.
- The composition of claim 1 in which the source of protein comprises casein and whey in a weight ratio of about 0.39.
 - 3. The composition of claim 1 comprising about 38% protein.
- 10 4. The composition of claim 1 comprising about 28% fat.
 - 5. The composition of claim 1 comprising about 19% carbohydrates.
 - 6. The composition of claim 1 in which the source of fat is selected from the group consisting of corn oil, canola oil, butter oil, arachidonic acid, docosahexaenoic acid, and blends thereof.
 - 7. The composition of claim 1 containing fatty acids expressed as a percentage of total fatty acids on a dry matter basis, of from 15 to 19% palmitic acid, from about 5 to 9% stearic acid, from about 34 to 38% oleic acid, from about 17 to 21% linoleic acid, from about 1 to 4% α -linolenic acid, from about 0.5 to 2% arachidonic acid, from about 0.2 to 1% docosahexaenoic acid (DHA), from about 2 to 5% Omega 3 fatty acids, from about 18 to 22% Omega 6 fatty acids, and from about 1 to 4% trans fatty acids.
- 25 8. The composition of claim 1 containing amino acids expressed as a percentage of total essential amino acids on a dry matter basis of from about 6 to 10% arginine, 4 to 8% histidine, 8 to 12% isoleucine, 16 to 20% leucine, from about 13 to 17% lysine, from about 2 to 7% methionine, from about 6 to 10% phenylalanine, from about 8 to 12% threonine, from about 1 to 4% tryptophan, from about 9 to 13% valine, from about 2 to 5% cystine, and from about 2 to 6% tyrosine.

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- 9. The composition of claim 1 containing from about 4 to 8% by weight lactose.
- The composition of claim 1 containing about 0.50% by weight fructooligosaccharide. 10.

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- 11. The composition of claim 1 containing from about 27 to 37% by weight fatty acids.
 - 12. The composition of claim 1 containing from about 15 to 25% by weight essential amino acids.
- 10 An artificially produced canine milk substitute composition comprising, on a dry matter 13. basis, from about 35 to 45% protein, from about 25 to 35% fat, and from about 10 to 25% by weight carbohydrates, said composition further comprising from about 4 to 8% by weight lactose and about 0.50% by weight fructooligosaccharide.
- 15 🕮 14. An artificially produced canine milk substitute composition comprising, on a dry matter basis, from about 35 to 45% protein, from about 25 to 35% fat, and from about 10 to 25% carbohydrates, wherein the source of fat is selected from the group consisting of corn oil, canola oil, butter oil, arachidonic acid, docosahexaenoic acid, and blends thereof.

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